

USB Type-C and HDMI Transmitter Switcher

Universal transmitter switcher is part of the AV over IP ecosystem with SDVoE technology that provides the same functionality as the UCX product range from a single source to multiple destinations through 10G Ethernet networks.



Details

- UCX-TPN combines Full-Featured USB-C and SDVoE
- HDMI2.0 4K@60 4:4:4 matrix switching over 10G network
- Independent, full bandwidth USB 2.0 matrix switching layer, supporting multiple USB camera sources
- Taurus UCX, DCX and HDMI-TPN devices can be combined in a media-over-IP matrix switching system

Features

- **USB-C charging up to 100W**
- **Multiple USB 2.0 connectivity for any type of USB device (Camera, speakerphone, touch monitor, USB-HID devices etc.)**
- **Room device control via Ethernet (TCP/IP), Serial, OCS or local GPIOs**
- **Independent USB Host switching layer for multiple USB hosts, for devices connected to TPN receivers and for 4 devices at TX side**
- **Video, Audio, Data and Charging Power over a single USB-C connection**
- **Allows for the transmission of USB-C, HDMI 2.0, embedded audio, Ethernet, RS-232 to multiple TPN receiver devices through a 10G Ethernet switch**
- **Integrated SDVoE Control Server**
- CEC at the HDMI outputs
- Supporting Lightware Advanced Room Automation (LARA)
- SSH, SSL, and HTTPS for IT security
- Supports uncompressed HDMI 4K signal formats (4K UHD @60Hz RGB 4:4:4, up to 18 Gbps, 600 MHz pixel clock)
- Welcome screen for custom corporate logo and on-screen display warning messages
- Multiple Ethernet network configurations fitting various corporate network topologies and IT security standards (e.g. 802.1x compliance)
- Audio de-embedding
- Serial and GPIO control ports

Specifications

General	Compliance	CE; UKCA	
	Electrical safety	IEC 61000-3-3:2013+AMD1:2017	
	EMC (emission)	IEC/EN 55032:2015	
	EMC (immunity)	IEC/EN 55035:2017	
	RoHS	EN 63000:2018	
	Warranty	3 years	
	Operating temperature	0° to +50°C (+32° to +122°F)	
	Operating humidity	10% to 90%, non-condensing	
	Cooling	Cooling fan	
Power	Power supply	External 160W Power Supply	
	Supported power source	100-240 V AC; 50/60 Hz	
	AC power plug	Interchangeable (EU, UK, JP/US, AUS/NZ)	
	Battery cell type	BR1632A	
Enclosure	Enclosure material	1 mm steel	
	Dimensions in mm	271 W x 140,3 D x 26 H	
	Dimensions in inch	10.7 W x 5.57 D x 1.01 H	
	Weight (UCX-4x2-HC30)	900 g (TO BE CONFIRMED)	
Video Inputs	USB-C input	Connector type	24-pole USB type C receptacle
		A/V standard	DP 1.2a
		HDCP compliance	HDCP 1.4, HDCP 2.2
		Color space	RGB, YCbCr
		Video delay	0 frame
		Max. video resolution	4096x2160@60Hz RGB 4:4:4 (up to 600MHz pixel clock); 1920x1080@120 Hz, 36 bit
		Audio formats	all formats in line with HDMI 2.0 standard
		3D support	yes

Specifications

Video Inputs	HDMI input	Connector type	19-pole HDMI Type A receptacle (with screw locking option)
		A/V standard	DVI 1.0, HDMI 1.4, HDMI 2.0
		Maximum data rate	18Gbps
		Maximum pixel clock	597MHz
		HDCP compliance	HDCP 1.4, HDCP 2.2
		Color space	RGB, YCbCr
		Video delay	0 frame
		Max. video resolution	4096x2160@60Hz RGB 4:4:4 (up to 600MHz pixel clock); 1920x1080@120 Hz, 36 bit
		Max. input HDMI cable length (with premium certified cable) at 3840x2160@60Hz 4:4:4	5m
		Re-clocking	Pixel Accurate Re-clocking
		3D support	yes
		Audio mode	Simultaneous pass-through and de-embedding to the Audio layer
		Supported audio formats for pass-through	All HDMI2.0 audio formats
Supported audio formats for de-embedding	Uncompressed		
Compressed	Dolby Digital, DTS; Compressed HBR; Dolby TrueHD, DTS-HD		
Video Outputs	HDMI output	Connector type	19-pole HDMI Type A receptacle
		A/V standard	DVI 1.0, HDMI 1.4, HDMI 2.0
		HDCP compliance	HDCP 1.4, HDCP 2.2
		Color space	RGB, YCbCr
		Supported resolutions	Up to UHD/4k@60Hz 4:4:4
		Audio formats	8 channel PCM, Dolby TrueHD; DTS-HD Master Audio 7.1
Audio Ports	Analog audio output	Connector type	5-pole Phoenix connector
		Audio formats	2-ch PCM
		Sampling frequency	48 kHz
		Volume	-95.62 dB-0 dB
		Balance	-100 +100 (0 = center)
	GPIO port	Connector type	8-pole Phoenix
		Function (pin 1-6)	Configurable (input/output)
		Function (pin 7)	5V output
	Function (pin 8)	Ground	



Specifications

USB Ports	Host port (UFP)	Connector type	C-type receptacle
		USB compliance	USB 2.0
		Connector type	B-type receptacle
		USB compliance	USB 2.0
	Device port (DFP)	Connector type	A-type receptacle
		USB compliance	USB 2.0
Control ports	Ethernet port	Connector type	RJ45 female connector
		Ethernet data rate	10/100/1000 Base-T, full duplex with auto detect
		Power over Ethernet (PoE)	Not supported
	USB port	Connector type	A-type receptacle
		USB compliance	USB 2.0
		Connector type	mini B-type
		USB compliance	USB 2.0
	RS-232 port	Connector type	3-pole Phoenix connector
		Baud rates	between 9600 and 115200 baud
		Data bits	8
		Parity	None Odd/Even
		Stop bits	1/2
		Output voltage: Low level	3-15V
		Output voltage: High level	-15V - 3V